

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

|                                 |                                            |                                        |                                           |                            |
|---------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------|
| <u>AIRPORT ID</u><br>C91        | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 27 | <u>ORIGINAL/AMENDMENT</u><br>1         | <u>CITY</u><br>DOWAGIAC                   | <u>STATE</u><br>MI         |
| <u>AIRPORT ELEVATION</u><br>747 | <u>TDZE</u><br>747                         | <u>SUPERSEDED</u><br>RNAV (GPS) RWY 27 | <u>ORIGINAL/AMENDMENT</u><br>ORIG-B       | <u>DATED</u><br>03/21/2024 |
| <u>FACILITY</u><br>RNAV         | <u>COORDINATES OF FACILITIES</u>           | <u>ACTUAL EFFECTIVE DATE</u>           | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <u>MAG VAR</u><br>5W       |
|                                 |                                            |                                        |                                           | <u>EPOCH YEAR</u><br>2010  |
|                                 |                                            |                                        |                                           | <u>CANCEL/SUSPEND</u>      |

TERMINAL ROUTES

| FROM                  | FIX TYPE | TO                    | FIX TYPE | LEG TYPE | FO/FB | RNP  | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| ZUDOB                 | IAF      | YEGTU                 | NOPT     | TF       | FB    | 1.00 | 005.25 | 6.45     | 2700     |
| RESGY                 | IAF      | YEGTU                 | NOPT     | TF       | FB    | 1.00 | 244.98 | 14.44    | 2700     |
| KIMBY                 | IAF      | YEGTU                 | NOPT     | TF       | FB    | 1.00 | 185.39 | 6.45     | 2700     |
| YEGTU                 | IF/IAF   | WUKOV                 |          | TF       | FB    | 1.00 | 275.25 | 6.10     | 2500     |
| WUKOV                 | FAF      | SLOAT/2.51 NM TO RW27 |          | TF       | FB    | 0.30 | 275.16 | 2.89     |          |
| SLOAT/2.51 NM TO RW27 |          | RW27                  | MAP      | TF       | FO    | 0.30 | 275.16 | 2.51     |          |
| RW27                  | MAP      | 1147 MSL              |          | CA       |       |      | 275.16 |          |          |
| 1147 MSL              |          | JUBLA                 |          | DF       | FO    | 1.00 |        |          | 2500     |

MISSED APPROACH

MAP:  
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT JUBLA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD E YEGTU, RT, 275.25 INBOUND, 2700 IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 275.16

FAF: WUKOV

DIST FAF TO MAP: 5.40

DIST FAF TO THLD: 5.40
4. MIN ALT: YEGTU 2700, WUKOV 2500, SLOAT/2.51 NM TO RW27 1580
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:
6. MIN GP INCPT:

GP ALT AT FAF:

OM:

MM:

IM:
7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH:
8. MSA FROM: RW27 3000

QUALITY  
10  
CHECKED

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: VDP NA WHEN USING EKM ALTIMETER SETTING.

CHART NOTE: CIRCLING RWY 9 NA AT NIGHT.

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.

CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, USE EKM ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CATS C AND D 1/8 SM, AND CIRCLING VISIBILITY CATS C AND D 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD W, RT, 094.90 INBOUND.

CHART FAS OBST: 970 TREE 420009N/0860424W.

CHART VDP AT 1.37 NM TO RW27.

WUKOV TO RW27: 3.00/35.

**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA ☒

| <b>CATEGORY:</b>  | <b>A</b>      |            |                | <b>B</b>      |            |                | <b>C</b>      |            |                | <b>D</b>      |            |                | <b>E</b>      |            |                |
|-------------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|
| <b>FINAL TYPE</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> |
| LNAV MDA          | 1220          | 1          | 473            | 1220          | 1          | 473            | 1220          | 1 3/8      | 473            | 1220          | 1 3/8      | 473            |               |            |                |
| CIRCLING          | 1300          | 1          | 553            | 1320          | 1          | 573            | 1320          | 1 1/2      | 573            | 1480          | 2 1/4      | 733            |               |            |                |

**CHANGES - REASONS**

1. TERMINAL ROUTES: REMOVED ELX VOR/DME TO KIMBY AND ALL ASSOCIATED DATA – ELX VOR/DME VOR MON.
2. TERMINAL ROUTES: REMOVED LINGS TO ZUDOB AND ALL ASSOCIATED DATA – FPT REQUEST, NO LONGER REQUIRED.
3. TERMINAL ROUTES: IF LEG ZUDOB TO YEGTU DISTANCE UPDATED FROM “5.00” TO “6.45” – IAW 8260.58C, 1-2-5. B(1)(A)1.
4. TERMINAL ROUTES: IF LEG KIMBY TO YEGTU COURSE/DISTANCE UPDATED FROM “185.25/5.00” TO “185.39/6.45” – IAW 8260.58C, 1-2-5. B(1)(A)1.
5. TERMINAL ROUTES: IF/IAF LEG YEGTU TO WUKOV DISTANCE UPDATED FROM “6.18” TO “6.10” – FAF LOCATION MOVED TO ACQUIRE 3.00 VDA IAW 8260.3G, 2-6-4.
6. TERMINAL ROUTES: FINAL LEG AND DISTANCE UPDATED FROM “SLOAT/2.50 NM TO RW27” AND “2.82” TO “SLOAT/2.51 NM TO RW27” AND “2.89” – IAW 8260.19J, 8-6-4. A(6).
7. TERMINAL ROUTES: STEPDOWN LEG AND DISTANCE UPDATED FROM “SLOAT/2.50 NM TO RW27” AND “2.50” TO “SLOAT/2.51 NM TO RW27” AND “2.51” – IAW 8260.19J, 8-6-4. A(6).
8. PROFILE LINE 3: UPDATED DIST FAF TO MAP/DIST FAF TO THLD FROM “5.32/5.32” TO “5.40/5.40” – FAF MOVED 477 FT TO THE EAST.
9. PROFILE LINE 4: UPDATED FROM “SLOAT/2.50 NM TO RW27” TO “SLOAT/2.51 NM TO RW27” – SLOAT MOVED 41 FT TO THE EAST.
10. NOTES: UPDATED FROM “CHART NOTE: VDP NA WHEN USING ELKHART ALTIMETER SETTING” TO “CHART NOTE: VDP NA WHEN USING EKM ALTIMETER SETTING” – IAW 8260.19J, 8-6-10. E(9).
11. NOTES: ADDED “CHART NOTE: CIRCLING NA TO RWYS 4 AND 22” - RWY 4/22 IS TURF, CIRCLING TO TURF RWYS IS NA WITHOUT RAPT APPROVAL IAW UNPAVED RUNWAYS (2.0) SOP.
12. NOTES: BACKUP ALTIMETER NOTE UPDATED FROM “CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELKHART ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND VISIBILITY CAT C AND D 1/4 SM” TO “CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, USE EKM ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CATS C AND D 1/8 SM, AND CIRCLING VISIBILITY CATS C AND D 1/4 SM” - IAW 8260.19J, 8-6-10. E(2).
13. ADDITIONAL FLIGHT DATA: FAS OBST UPDATED FROM "CHART FAS OBST: 999 TREE 415959N/0860334W" TO "CHART FAS OBST: 970 TREE 420009N/0860424W" - IAW 8260.19J, 8-6-11 C.
14. ADDITIONAL FLIGHT DATA: CHART VDP UPDATED FROM "1.50 NM TO RW27" TO "1.37 NM TO RW27" – IAW 8260.19J, 8-6-11. M(2).
15. ADDITIONAL FLIGHT DATA: WUKOV TO RW27 UPDATED FROM "3.04/35" TO "3.00/35" - FAF LOCATION MOVED TO ACQUIRE 3.00 VDA IAW 8260.3G, 2-6-4 AND IAW 8260.19J, 8-6-11. O(1).
16. MINIMUMS: LNAV ALL CATS MDA/HAT UPDATED FROM "1260/513" TO "1220/473" – NEW CONTROLLING OBSTACLE IAW 8260.19J, 8-6-12.
17. CIRCLING CAT A MDA/HAA UPDATED FROM "1320/573" TO "1300/553" AND CIRCLING CAT C MDA/VIS/HAA UPDATED FROM “1480/2/733” TO “1320/1 1/2/573”- NEW CONTROLLING OBSTACLE IAW 8260.19J, 8-6-12. AND 8260.3G, TABLE 3-3-7.

QUALITY  
10  
CHECKED

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZAU, SBN APP CON, AMGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

CASEY HILL (GEORGE H. TYLER)

OFFICE

DATE

AJV-A421

05/20/2025

APPROVED BY

CASEY HILL

OFFICE

DATE

TITLE

AJV-A421

11/27/2025

MANAGER



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

| <u>AIRPORT ID</u> | <u>PROCEDURE NAME</u> | <u>AMDT NO.</u> | <u>CITY</u> | <u>STATE</u> | <u>AIRPORT ELEVATION</u> | <u>FACILITY</u> |
|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| C91               | RNAV (GPS) RWY 27     | 1               | DOWAGIAC    | MI           | 747                      | RNAV            |

**PART A: OBSTRUCTION DATA SEGMENTS**

**INITIAL**

**FROM** ZUDOB **TO** YEGTU

**RNP** 1.00 **DISTANCE** 6.45 **PAT** **MAP** **HAT** **HMAS**

| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TOWER (26-001559)  | 415627.06N/0854927.39W | 1493            | 250         | 50          | 4D        | 1000       |            |           |             |                    | 2500           |
| TERRAIN            | 415703.00N/0854930.00W | 1167 (1200)     |             |             |           |            |            |           |             | AS1500             | 2700           |

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INITIAL**

**FROM** RESGY **TO** YEGTU

**RNP** 1.00 **DISTANCE** 14.44 **PAT** **MAP** **HAT** **HMAS**

| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| TOWER (26-001991)  | 420541.16N/0853822.00W | 1221            | 50          | 20          | 2C        | 1000       |            |           |             | AT479              | 2700           |
| TERRAIN            | 415742.00N/0855100.00W | 987 (1000)      |             |             |           |            |            |           |             | AS1500             | 2500           |

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

QUALITY  
10  
CHECKED

INITIAL

FROM

KIMBY

TO

YEGTU

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| 1.00               | 6.45                   |                 |             |             |           |            |             |           |             |                    |                |
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u>  | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| AAO                | 420009.00N/0855418.00W | 1227            | 215         | 8           | 4B        | 1000       |             |           |             | AT473              | 2700           |
| TERRAIN            | 420106.00N/0855351.00W | 980 (1000)      |             |             |           |            |             |           |             | AS1500             | 2500           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

YEGTU (IF/IAF)

TO

WUKOV

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| 1.00               | 6.10                   |                 |             |             |           |            |             |           |             |                    |                |
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u>  | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| TOWER (26-001632)  | 415715.00N/0855623.00W | 1263            | 500         | 50          | 5D        | 500        |             |           |             |                    | 1800           |
| TERRAIN            | 420009.00N/0855418.00W | 1026 (1000)     |             |             |           |            |             |           |             | AS1500             | 2500           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

WUKOV

TO

SLOAT/2.51 NM TO RW27

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30               | 2.89                   |                 |             |             |            |            |             |           |             |                    |                |
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u>  | <u>ROC</u> | <u>OCS</u>  | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| AAO                | 420018.00N/0860027.00W | 1172            | 215         | 8           | 4B         | 250        |             |           |             | RA60 DG98          | 1580           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

SLOAT/2.51 NM TO RW27

TO

RW27

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
| 0.30               | 2.51                   |                 | RW27        |             | 473        |            |             |           |             |                    |                |
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u>  | <u>ROC</u> | <u>OCS</u>  | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| TREE               | 420009.00N/0860424.00W | 970             | 215         | 8           | 4B         | 250        |             |           |             |                    | 1220           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

YEGTU

TO

P-5

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u><br>P-5 | <u>MAP</u>  |             | <u>HAT</u> |            |            |           | <u>HMAS</u> |                    |                |
|--------------------|------------------------|-------------------|-------------|-------------|------------|------------|------------|-----------|-------------|--------------------|----------------|
| <u>OBSTRUCTION</u> | <u>COORDINATES</u>     | <u>ELEV MSL</u>   | <u>HORZ</u> | <u>VERT</u> | <u>AC</u>  | <u>ROC</u> | <u>OCS</u> | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
| TOWER (26-001559)  | 415627.06N/0854927.39W | 1493              | 250         | 50          | 4D         | 1000       |            |           |             |                    | 2500           |
| TERRAIN            | 415703.00N/0854930.00W | 1167 (1200)       |             |             |            |            |            |           |             | AS1500             | 2700           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW27

TO

JUBLA

| <u>RNP</u><br>0.30-1.00 | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u><br>1120 |           |             |                    |                |
|-------------------------|------------------------|-----------------|-------------|-------------|-----------|------------|---------------------|-----------|-------------|--------------------|----------------|
| <u>OBSTRUCTION</u>      | <u>COORDINATES</u>     | <u>ELEV MSL</u> | <u>HORZ</u> | <u>VERT</u> | <u>AC</u> | <u>ROC</u> | <u>OCS</u>          | <u>CG</u> | <u>CGTA</u> | <u>ADJUSTMENTS</u> | <u>MIN ALT</u> |
|                         |                        |                 |             |             |           |            | ASC                 |           |             |                    | 2500           |
| TOWER (26-000450)       | 415742.00N/0862102.00W | 1224            | 250         | 50          | 4D        | 1000       |                     |           |             |                    | 2300           |
| TERRAIN                 | 420054.00N/0861418.00W | 895 (900)       |             |             |           |            |                     |           |             | AS1500             | 2400           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

| OBSTRUCTION       | COORDINATES            | RADIUS | HAA | ELEV MSL | HORZ | VERT | AC | ROC | OCS | ADJUSTMENTS | MIN ALT |
|-------------------|------------------------|--------|-----|----------|------|------|----|-----|-----|-------------|---------|
| CATEGORY A        |                        |        |     |          |      |      |    |     |     |             |         |
| TOWER (26-109835) | 415829.20N/0860856.90W | 1.30   | 553 | 950      | 250  | 50   | 4D | 300 |     | AC50        | 1300    |
| CATEGORY B        |                        |        |     |          |      |      |    |     |     |             |         |
| TANK (26-001721)  | 415817.55N/0860549.65W | 1.83   | 573 | 1009     | 20   | 3    | 1A | 300 |     |             | 1320    |
| CATEGORY C        |                        |        |     |          |      |      |    |     |     |             |         |
| TANK (26-001721)  | 415817.55N/0860549.65W | 2.88   | 573 | 1009     | 20   | 3    | 1A | 300 |     |             | 1320    |
| CATEGORY D        |                        |        |     |          |      |      |    |     |     |             |         |
| TOWER (26-002008) | 415709.04N/0860510.87W | 3.76   | 733 | 1169     | 50   | 20   | 2C | 300 |     |             | 1480    |

CIRCLING REMARKS:

MSA

| CENTER | RADIUS |
|--------|--------|
| RW27   | 25     |

| SECTOR  | OBSTRUCTION       | COORDINATES            | BEARING | DISTANCE | ELEV MSL | HORZ | VERT | AC | ROC  | OCS | ADJUSTMENTS | MIN ALT |
|---------|-------------------|------------------------|---------|----------|----------|------|------|----|------|-----|-------------|---------|
| 360-360 | TOWER (18-002311) | 413655.00N/0861107.00W | 192     | 22.9     | 1949     | 500  | 50   | 5D | 1000 |     |             | 3000    |

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

SBN APP CON, ZAU ARTCC, LAN FSS

| WX SERVICE         | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
|--------------------|----------|---------------|------------------|----------|-------|-------------|
| CTAF               | C91      | 24            | C91              |          | N     | 0           |
| BACK-UP WX SERVICE | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
| AWOS-3             | EKM      | 24            | EKM              | 17.34    | Y     | 45          |

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME  
C91 747, EKM 778  
RA=44.2

| PRIMARY NAVAID                               | MONITOR POINT | HRS OPERATION   | CAT                 |
|----------------------------------------------|---------------|-----------------|---------------------|
| APPROACH AND RUNWAY LIGHTING SYSTEM          |               | RUNWAY MARKINGS | RUNWAY VISUAL RANGE |
| RW04                                         |               | BSC-G           |                     |
| RW22                                         |               | BSC-G           |                     |
| RW09 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL) |               | NPI-G           |                     |
| RW27 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL) |               | NPI-G           |                     |

| GLIDESLOPE ANGLE | ELEV RWY THRESHOLD | TCH | ELEV GS ANTENNA | DISTANCE FROM RWY | VGSI ANGLE | TCH  |
|------------------|--------------------|-----|-----------------|-------------------|------------|------|
|                  |                    |     |                 |                   | 3.00       | 35.0 |

FINAL APPROACH COURSE AIMING

|                  |                                     |                    |                              |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE    | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

CRITICAL TEMPERATURES

| CRITICAL LOW | CRITICAL HIGH | ACT | APT ISA |
|--------------|---------------|-----|---------|
|--------------|---------------|-----|---------|

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

|                                                    |                |  |  |
|----------------------------------------------------|----------------|--|--|
| FINAL TYPE                                         | CIRCLING RWY 9 |  |  |
| 20:1                                               |                |  |  |
| 825 TREE (26-040386) 415941.27N/0860846.06W (3.00) |                |  |  |
| FINAL TYPE                                         | LNAV           |  |  |
| 34:1                                               |                |  |  |

QUALITY  
10  
CHECKED



| <u>AIRPORT ID</u><br>C91                            | <u>PROCEDURE NAME</u><br>RNAV (GPS) RWY 27 | <u>AMDT NO.</u><br>1 | <u>CITY</u><br>DOWAGIAC                             | <u>STATE</u><br>MI | <u>AIRPORT ELEVATION</u><br>747 | <u>FACILITY</u><br>RNAV |
|-----------------------------------------------------|--------------------------------------------|----------------------|-----------------------------------------------------|--------------------|---------------------------------|-------------------------|
| 813 TREE (26-097442) 415934.73N/0860656.78W (24.26) |                                            |                      | 806 TREE (26-035189) 415934.60N/0860658.92W (22.02) |                    |                                 |                         |
| 825 TREE (26-040362) 415934.05N/0860648.36W (17.56) |                                            |                      | 832 TREE (26-040366) 415934.94N/0860642.73W (12.06) |                    |                                 |                         |
| 818 TREE (26-035287) 415932.60N/0860648.95W (11.86) |                                            |                      | 803 TREE (26-035279) 415933.30N/0860655.32W (11.01) |                    |                                 |                         |
| 818 TREE (26-040382) 415935.23N/0860647.94W (9.63)  |                                            |                      | 830 TREE (26-040286) 415940.21N/0860642.24W (8.99)  |                    |                                 |                         |
| 827 TREE (26-040349) 415936.85N/0860642.69W (6.98)  |                                            |                      | 879 TREE (26-040374) 415931.71N/0860619.06W (6.47)  |                    |                                 |                         |
| 804 TREE (26-040287) 415937.43N/0860651.86W (4.35)  |                                            |                      | 787 TREE (26-040288) 415935.83N/0860659.42W (4.13)  |                    |                                 |                         |
| 824 TREE (26-040368) 415932.86N/0860642.52W (3.58)  |                                            |                      | 815 TREE (26-040364) 415934.79N/0860646.40W (3.21)  |                    |                                 |                         |
| 820 TREE (26-040352) 415938.22N/0860644.05W (3.01)  |                                            |                      | 832 TREE (26-040357) 415940.29N/0860638.19W (2.00)  |                    |                                 |                         |
| 787 TREE (26-035187) 415936.92N/0860658.45W (1.98)  |                                            |                      | 821 TREE (26-040365) 415935.90N/0860643.14W (1.97)  |                    |                                 |                         |
| 839 TREE (26-040358) 415939.94N/0860635.02W (1.96)  |                                            |                      | 801 TREE (26-040381) 415933.72N/0860651.95W (1.53)  |                    |                                 |                         |
| 838 TREE (26-096805) 415937.71N/0860635.06W (1.04)  |                                            |                      | 843 TREE (26-040371) 415937.12N/0860632.74W (0.88)  |                    |                                 |                         |
| 795 TREE (26-042491) 415934.22N/0860654.17W (0.46)  |                                            |                      |                                                     |                    |                                 |                         |
| <u>PENETRATIONS REMARKS:</u>                        |                                            |                      |                                                     |                    |                                 |                         |
|                                                     |                                            |                      |                                                     |                    |                                 |                         |

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

|                              |
|------------------------------|
| <u>PENETRATIONS REMARKS:</u> |
|                              |

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT DEVELOPED PER FPT.

LPV, LNAV/VNAV NOT DEVELOPED DUE TO VGS PENETRATIONS.

RWY 4/22 (TURF) UNPAVED RUNWAYS NOT RAPT APPROVED.

100 FT VEGETATION HEIGHT USED PER FPT.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

|                 |       |                                 |        |
|-----------------|-------|---------------------------------|--------|
| DISTANCE FROM   | THLD  | TO 1000FT POINT                 | 3.73   |
| WIDTH OF        | FINAL | SEGMENT AT 1000FT POINT         | 1.20   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1000FT POINT | 270.16 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1000FT POINT | 1000   |
| DISTANCE FROM   | THLD  | TO 1500FT POINT                 | 5.40   |
| WIDTH OF        | FINAL | SEGMENT AT 1500FT POINT         | 2.13   |
| TRUE COURSE OF  | FINAL | SEGMENT CONTAINING 1500FT POINT | 270.16 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1500FT POINT | 1000   |

|                                            |                           |
|--------------------------------------------|---------------------------|
| THRESHOLD COORDINATES (IF STR-IN)          | 415937.24N/0860718.35W    |
| ARP COORDINATES                            | 415934.50N/0860741.80W    |
| RUNWAY APCH END AND DIST FURTHEST FROM ARP | RUNWAY 9 DISTANCE 0.48 NM |
| FAF COORDINATES                            | 415936.56N/0860004.20W    |
| FIX NAME COORDINATES                       |                           |

REMARKS

PART E: PREPARED BY

| NAME                         | OFFICE   | DATE       | TITLE                               |
|------------------------------|----------|------------|-------------------------------------|
| CASEY HILL (GEORGE H. TYLER) | AJV-A421 | 05/20/2025 | AERONAUTICAL INFORMATION SPECIALIST |

